

# HOMEFIELD MANORS - VILLAGE J

PREPARED FOR: T. R. HUGHES INC.  
239 FOX HILL ROAD  
ST. CHARLES, MO 63301  
(314) 940-9300

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**REVISIONS**

12-19-01	CITY COMMENTS
3-26-02	CITY COMMENTS

**BAX**

ENGINEERING  
PLANNING  
SURVEYING

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St. Peters, MO 63376-6445  
314-928-5552  
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06-20-00  
DATE  
98-10001J  
PROJECT NUMBER  
1 OF 8  
SHEET OF  
10001JASCOV.DWG  
FILE NAME  
SLH MGG  
DRAWN CHECKED

Homefield Manors  
Village J

# A SET OF AS-BUILT PLANS FOR HOMEFIELD MANORS - VILLAGE J

## "HOMEFIELD ESTATES"

A TRACT OF LAND IN FRACTIONAL SECTION 16,  
TOWNSHIP 47 NORTH, RANGE 3 EAST  
ST. CHARLES COUNTY, MISSOURI

### GRADING NOTES

- A Geotechnical Engineer shall be employed by the owner and be on site during grading operations. All soils tests shall be verified by the Geotechnical Engineer concurrent with the grading and backfilling operations.
- The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes, or reasonably implied there from, all in accordance with the plans and notes as interpreted by the Geotechnical Engineer.
- The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.
- All areas shall be allowed to drain. All low points shall be provided with temporary ditches.
- A sediment control plan that includes monitored and maintained sediment control basins and/or straw bales should be implemented as soon as possible. No graded area is to be allowed to remain bare without being seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and siting up existing downstream storm drainage system.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site.
- All trash and debris on site, either existing or from construction, must be removed and properly disposed of off-site.
- Soft soil in the bottom and banks of any existing or former pond sites or tributaries or on any sediment basins or traps should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer locations.
- Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds; the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The material shall be properly disposed of off-site. Topsoil and grass in the fill areas shall be thoroughly disced prior to the placement of any fill. The Soils Engineer shall approve the discing operation.
- Compaction equipment shall consist of tamping rollers, pneumatic-tired rollers, vibratory roller, or high speed impact type drum rollers acceptable to the Soils Engineer. The roller shall be designed so as to avoid the creation of a layered fill without proper blending of successive fill layers.
- The Soils Engineer shall observe and test the placement of the fill to verify that specifications are met. A series of fill density tests will be determined on each lift of fill. Interim reports showing fill quality will be made to the Owner at regular intervals.
- The Soils Engineer shall notify the Contractor of rejection of a lift of fill or portion thereof. The Contractor shall rework the rejected portion of fill and obtain notification from the Soils Engineer of its acceptance prior to the placement of additional fill.
- All areas to receive fill shall be scarified to a depth of not less than 6 inches and then compacted in accordance with the specifications given below. Natural slopes steeper than 1 vertical to 5 horizontal to receive fill shall have horizontal benches, cut into the slopes before the placement of any fill. The width and height to be determined by the Soils Engineer. The fill shall be loosely placed in horizontal layers not exceeding 8 inches in thickness and compacted in accordance with the specifications given below. The Soils Engineer shall be responsible for determining the acceptability of soils placed. Any unacceptable soils placed shall be removed at the Contractor's expense.
- The sequence of operation in the fill areas will be fill, compact, verify acceptable soil density, and repetition of the sequence. The acceptable moisture contents during the filling operation are those at which satisfactory dry densities can be obtained. The acceptable moisture contents during the filling operation in the remaining areas are from 2 to 8 percent above the optimum moisture control.
- The surface of the fill shall be finished so that it will not impound water. If at the end of a day work it would appear that there may be rain prior to the next working day, the surface shall be finished smooth. If the surface has been finished smooth for any reason, it shall be scarified before proceeding with the placement of succeeding lifts. Fill shall not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to permit the layer under placement to freeze.
- Fill and backfill should be compacted to the criteria specified in the following table:

CATEGORY	MINIMUM PERCENT COMPACTION
Fill in building areas below footings	90%
Fill under slabs, walks, and pavement	90%
Fill other than building areas	88%
Natural subgrade	88%
Pavement subgrade	90%
Pavement base course	90%

Measured as a percent of the maximum dry density as determined by modified Proctor Test (ASTM-D-1557).

Moisture content must be within 2 percent below or 4 percent above optimum moisture content if fill is deeper than 10 feet.

### GENERAL NOTES

- Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to any grading or construction of the improvements.
- All manhole tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- 8" P.V.C. sanitary sewer pipe shall meet the following standards. A.S.T.M.-D-3034 SDR-35, with wall thickness compression joint A.S.T.M.-D-3212. An appropriate rubber seal watertop as approved by the sewer district shall be installed between P.V.C. pipe and masonry structures.
- All filled places, including trench backfills, under buildings, proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test," (A.S.T.M.-D-1557). All filled places within public roadways shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test AASHTO T-99, Method C" (A.S.T.M.-D-698).
- All trench backfills under paved areas shall be granular backfill, and shall be compacted to 90% of the maximum density as determined by the "Modified AASHTO T-180 Compaction Test," (A.S.T.M.-D-1557). All other trench backfills may be earth material (free of large clods or stones). All trench backfills shall be water jetted.
- All sanitary house connections have been designed so that the minimum vertical distance from the low point of the basement to the flow line of sanitary sewer at the corresponding house connection is not less than the diameter of the pipe plus the vertical distance of 2 1/2 feet.
- No area shall be cleared without the permission of the Project Engineer.
- All P.V.C. sanitary sewer is to be SDR-35 or equal with clean 1/2" to 1" granular stone bedding uniformly graded. This bedding shall extend from 4" below the pipe to the springline of the pipe. Immediate backfill over pipe shall consist of same size "clean" or minus stone from springline of pipe to 12" above the top of pipe.
- All soils test shall be verified by a Soils Engineer concurrent with the grading and backfilling operations.
- Easements shall be provided for sanitary sewers, and all utilities on the Record Plat. See Record Plat for location and size of easements.
- Maintenance and upkeep of the common ground area shall be the responsibility of the developer and/or successors.
- A 25' building line shall be established along all Public Rights-Of-Way.
- All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. 18" vertical clearance from outside of pipe to outside of pipe shall be maintained wherever water lines must cross sanitary sewers, laterals, or storm drains the water line shall be laid at such an elevation that the bottom of the water line is above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet horizontally, of any sewer or drain it crosses.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All construction and materials shall conform to the current construction standards of the City of O'Fallon.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- All existing areas disturbed during construction of the off-site sanitary sewer line shall be seeded and mulched to prevent erosion.
- All sanitary sewer laterals shall be a minimum of 4" in diameter per City of O'Fallon.
- No flushing hydrants or water meters shall be located in driveways and/or walkways.
- Concrete pipe for storm sewers shall be Class III, A.S.T.M. C-76 with a minimum diameter of 12" except in the R.O.W. it shall be 15".
- The ADS N-12 pipe shall have a smooth interior wall.
- Concrete pipe joints shall be MSD type "A" approved compression-type joints and shall conform to the requirements of the specifications for joints for circular concrete sewer and culvert pipe, using flexible, watertight, rubber-type gaskets (A.S.T.M.-C-443). Bond-type gaskets depending entirely on cement for adhesion and resistance to displacement during jointing shall not be used.
- When HDPE pipe is used, City of O'Fallon specifications or manufacturers specifications, which ever are more stringent, shall be followed.
- The use of High Density Polyethylene Corrugated pipe, ADS N-12 or equal will be permitted as an acceptable alternative to reinforced concrete pipe, ADS N-12 HC shall be used for all ADS pipe greater than 36". Pipe shall meet A.S.T.M.-D-2321 and A.A.S.H.T.O. M-294-291.
- All flared end sections and inlet structures will be concrete.
- All storm sewer pipe installed in the Public Right-of-Way shall be Reinforced concrete Class III pipe.
- All concrete pipe or ADS N-12 pipe shall be installed with "O-Ring" Rubber type gaskets per M.S.D. standard construction specifications or manufacturer.
- All Fire Hydrants and Water Meters shall not be located in driveways and/or sidewalks.

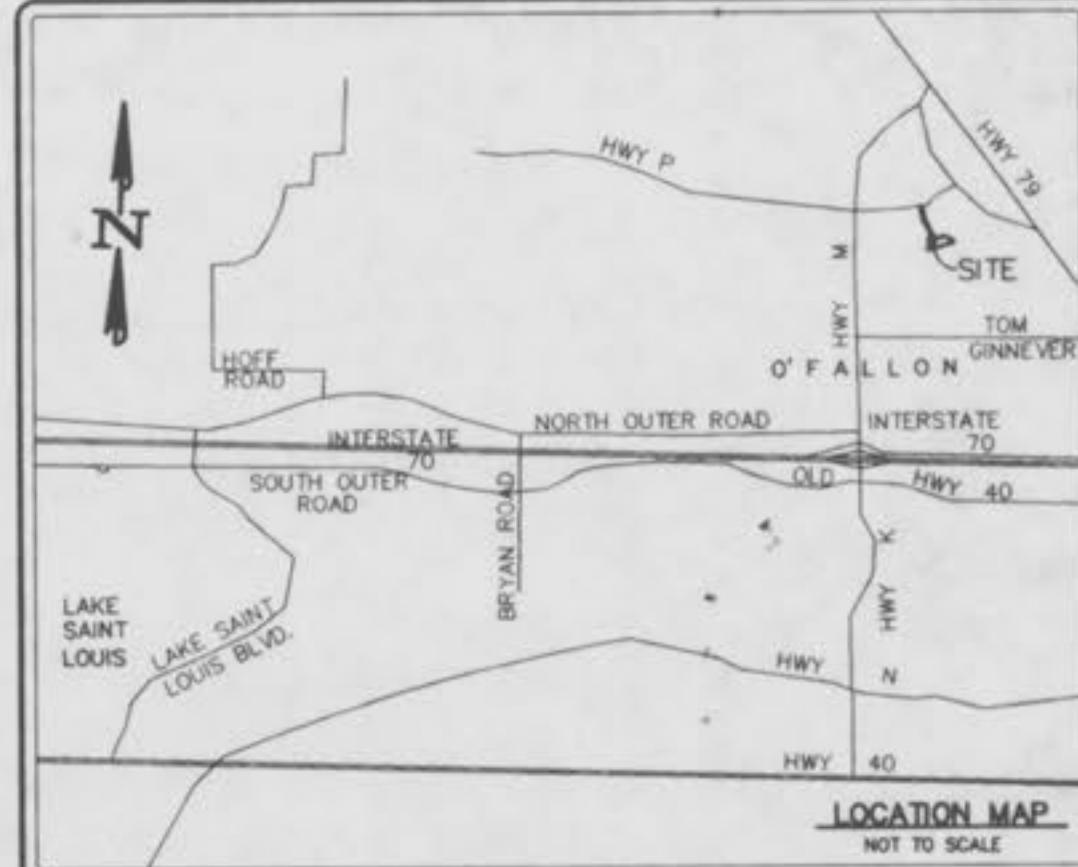


### BENCHMARK U.S.G.S.

Chiseled L on concrete hub rail of southwest corner of State Highway 79 bridge over Perquie Creek.  
Elev = 458.14

### SITE

Top of existing sanitary manhole behind proposed Lot 50J.  
Elev = 514.78



### DEVELOPMENT NOTES

- Area of Tract: 24.8 Acres
- Existing Zoning: R-1 P.U.D.
- Proposed Use: Single Family Residential
- Number of Lots Proposed: 84 Lots
- Minimum Lot Area Proposed: 7,500 Square Feet
- The proposed height and lot setbacks are as follows:
 

Minimum Front Yard:	25 feet
Minimum Side Yard:	6 feet
Minimum Rear Yard:	25 feet
Maximum Height of Building:	2 1/2 stories or 35 feet
- Site is served by:
  - City of O'Fallon Sewer District
  - AmerenUE Electric Company
  - St. Charles Gas Company
  - City of O'Fallon Water
  - GTE Telephone Company
  - Fort Zumwalt School District
  - O'Fallon Fire Protection District
- No 100 Year Flood Plain exists on this tract per F.I.R.M. #29183C0230E and 29183C0235E dated August 2, 1996.
- Topographic information is per Walker and Associates Topo on U.S.G.S. Datum
- Boundary information is per survey as compiled by Box Engineering Co., during June 1998 and March 1999.
- All streets will be constructed to City of O'Fallon standards. Streets will consist of 26 foot wide concrete pavement with integral rolled curb centered in a 50 foot right-of-way. A minimum centerline radius shall be 150 feet.
- All cul-de-sacs and bubbles will have pavement radii of 40 feet with right-of-way radii of 52 feet. Street intersections shall have a minimum rounding radius of 25 feet with pavement radii of 37 feet.
- Minimum street grades shall be 1%.
- All homes shall have a minimum of 2 off-street parking places with 2-car garages.
- All utilities must be located underground.
- All Lots must have a minimum lot width of 52 ft. at the front building line.
- No slope shall exceed 3(H) to 1(V).
- Driveways shall not interfere with handicap ramps for sidewalks.
- Remove the pavement along the existing stub streets to the nearest joint and replace with new concrete.
- All unused sanitary sewer extensions from under Homefield Boulevard shall be capped and the manholes shall be patched as necessary.
- Detention for this village is provided by Detention Basins "A" & "B". Calculations and details for Detention Basin "B" are included in the plans for Village N. Calculations and details for Detention Basin "A" are included in this set of plans.

### ASBUILTS NOTE:

ALL DISTANCE AND SLOPE CALCULATIONS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

THIS IS TO CERTIFY THAT WE HAVE DURING THE MONTH OF JUNE, 2000, BY ORDER OF T.R. HUGHES, EXECUTED AN AS-BUILT SURVEY OF EXISTING SANITARY SEWERS, STORM SEWERS, FIRE HYDRANTS AND WATER VALVES WITHIN "HOMEFIELD MANORS VILLAGE J", NOW KNOWN AS "HOMEFIELD ESTATES" A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 36 PAGE 303-304 OF THE ST. CHARLES COUNTY RECORDS. THE SANITARY LATERALS THAT ARE SHOWN WERE TAKEN FROM INFORMATION SUPPLIED TO BAX ENGINEERING BY THE SEWER CONTRACTOR, THEREFORE THEIR LOCATION IS ASSUMED APPROXIMATE. ALL SEWERS SHOWN LIE WITHIN THE EASEMENTS AS SHOWN ON SAID RECORDED SUBDIVISION PLAT UNLESS OTHERWISE NOTED. THE RESULTS OF THIS AS-BUILT SURVEY ARE SHOWN ON THIS PLAT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WILLIAM S. KARROLLENSKI  
BAX ENGINEERING CO., INC.  
MISSOURI PROFESSIONAL LAND SURVEYOR #2197

Homefield Manors  
Village J  
Asbuilt

AS-BUILTS PLAN  
HOMEFIELD MANORS  
VILLAGE J  
SEPTEMBER 10, 1999

12-19-01 CITY COMMENTS  
3-26-02 CITY COMMENTS

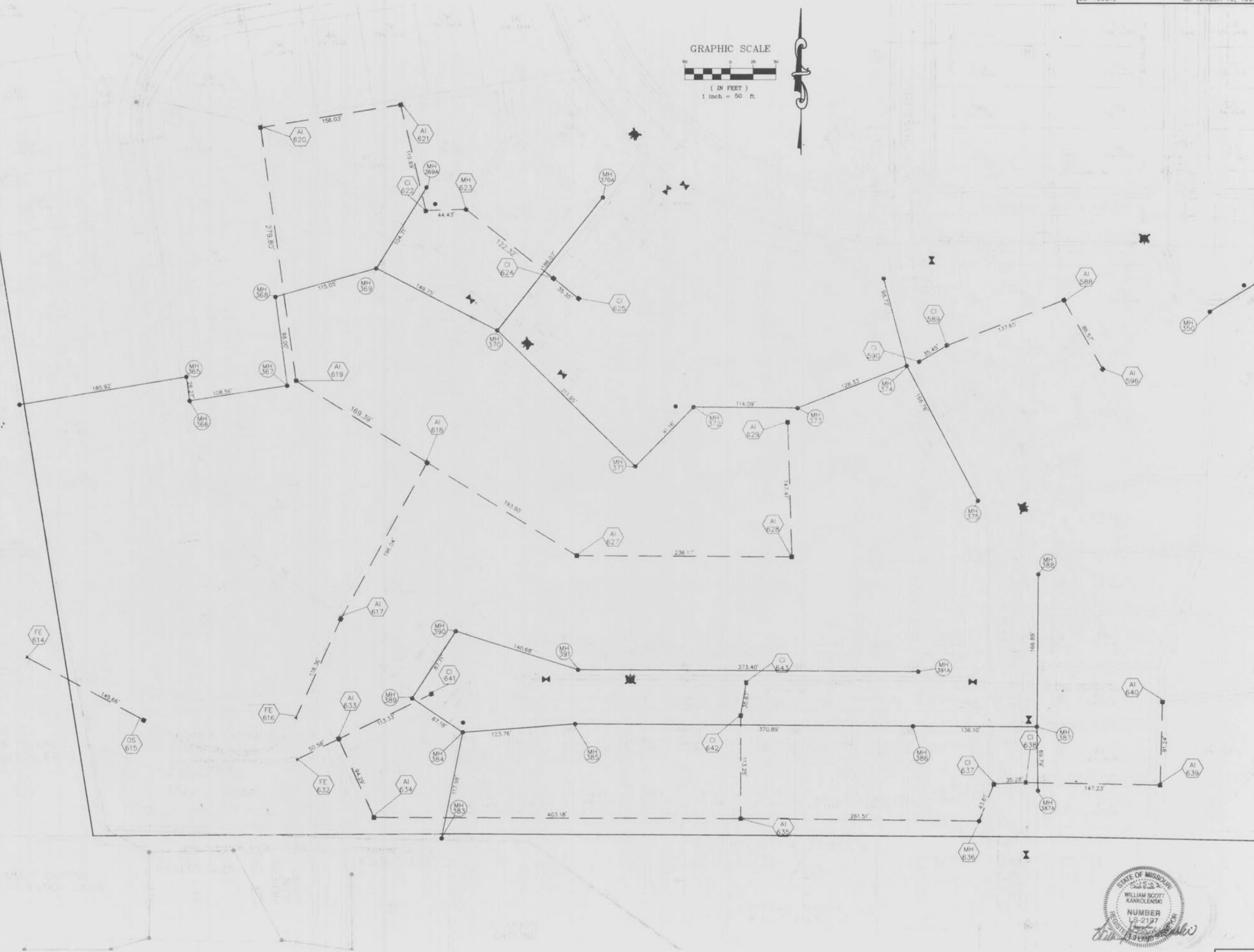
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Homefield Manors J  
as-built

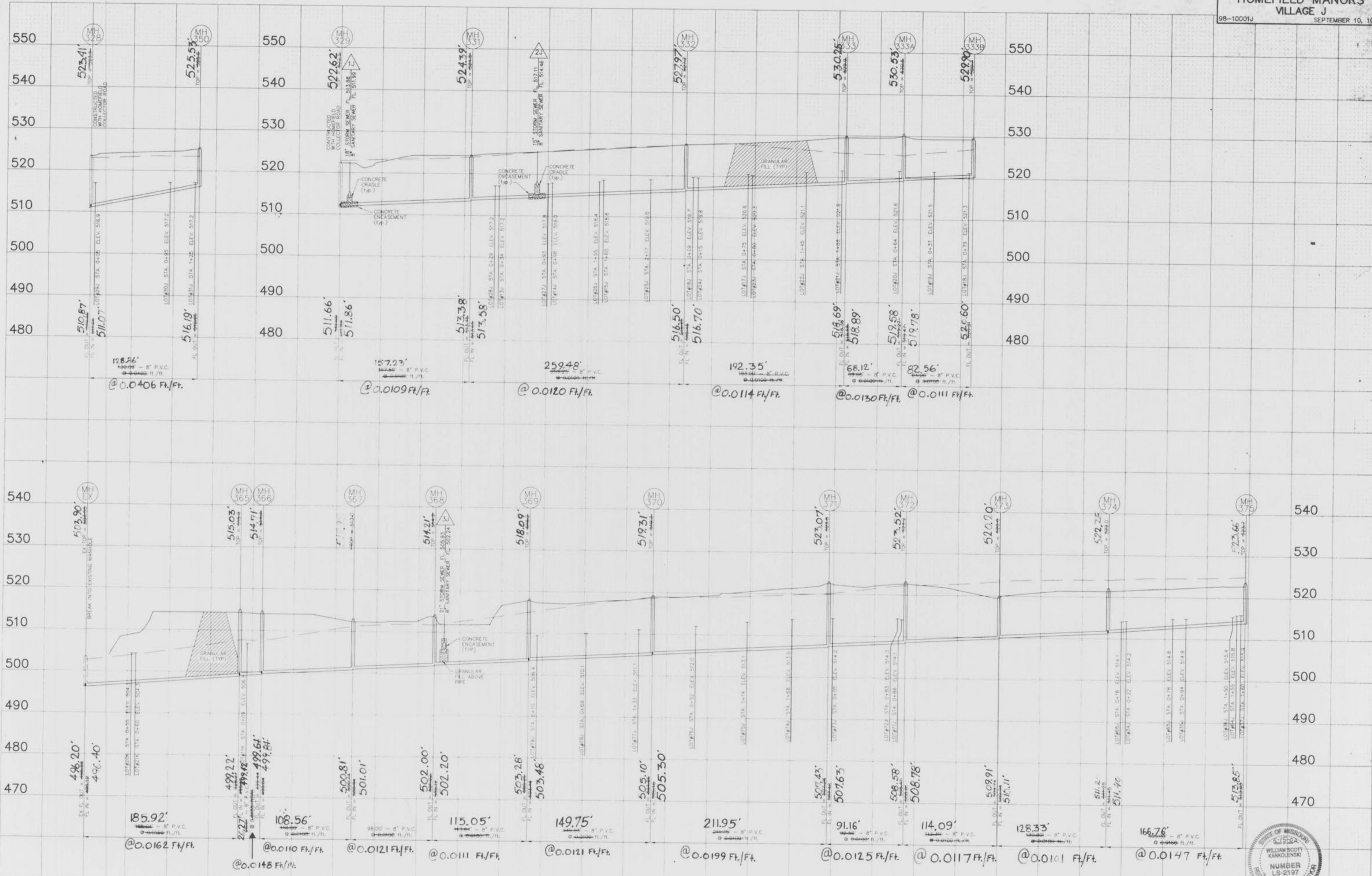
A graphic scale bar consisting of a horizontal line with tick marks at 0, 25, and 50. Below the line is a black and white checkered pattern. The text '(IN FEET)' is centered above the scale, and '1 inch = 50 ft.' is written below it.



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AS-BUILTS ADDED JUNE 2000



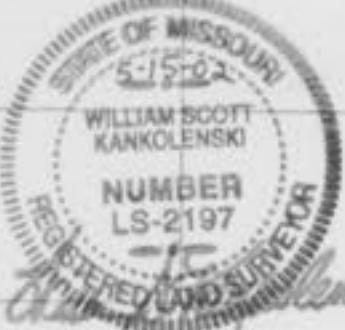


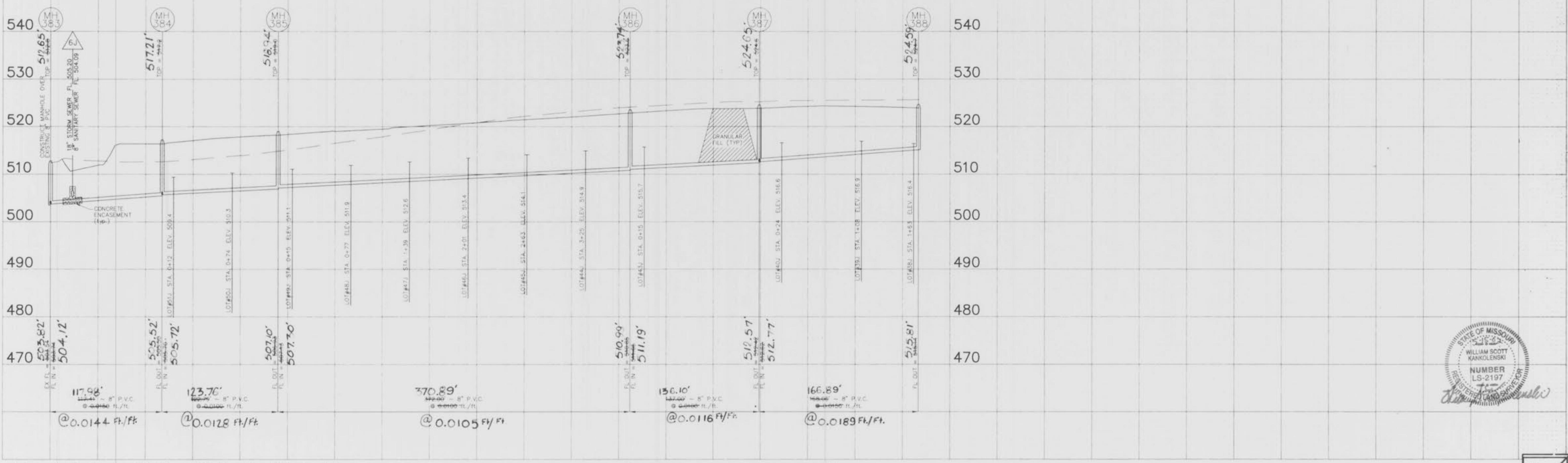
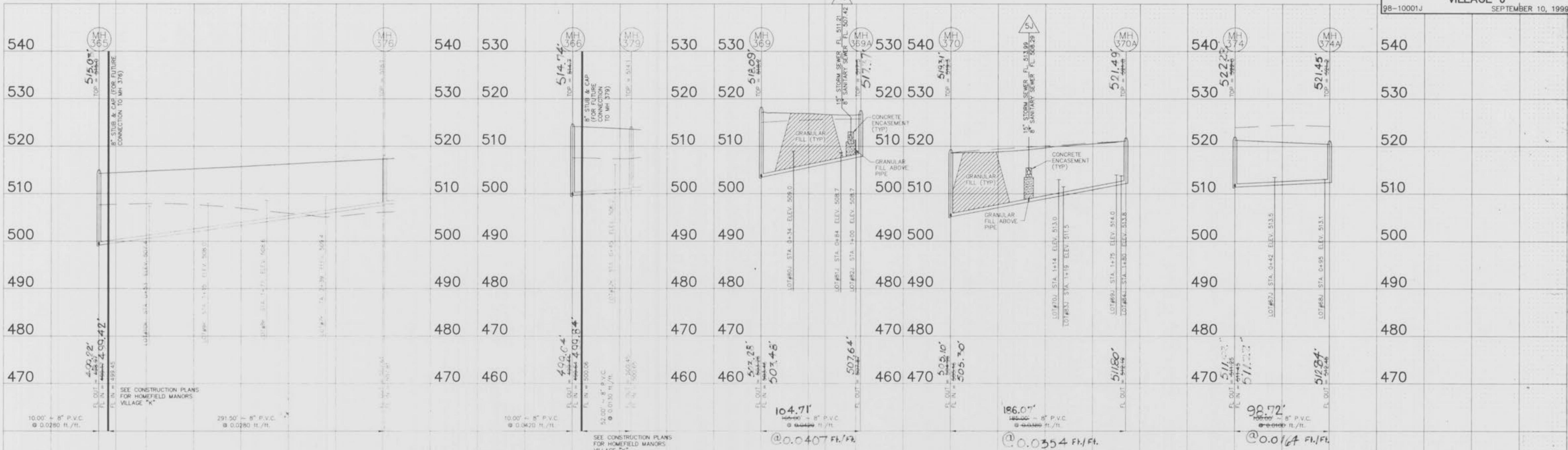
Underground utilities have been plotted from available information and, therefore, their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown, on these plans shall be the responsibility of the Contractor, and shall be located prior to any grading or construction of the improvements.

NOTE:  
All sanitary sewer lateral tailstake elevations have been designed for 8.0' basements in homes.

AS-BUILT'S NOTE:  
ALL DISTANCE AND SLOPE CALCULATIONS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

SCALE:  
1" = 10' VERTICAL  
1" = 50' HORIZONTAL





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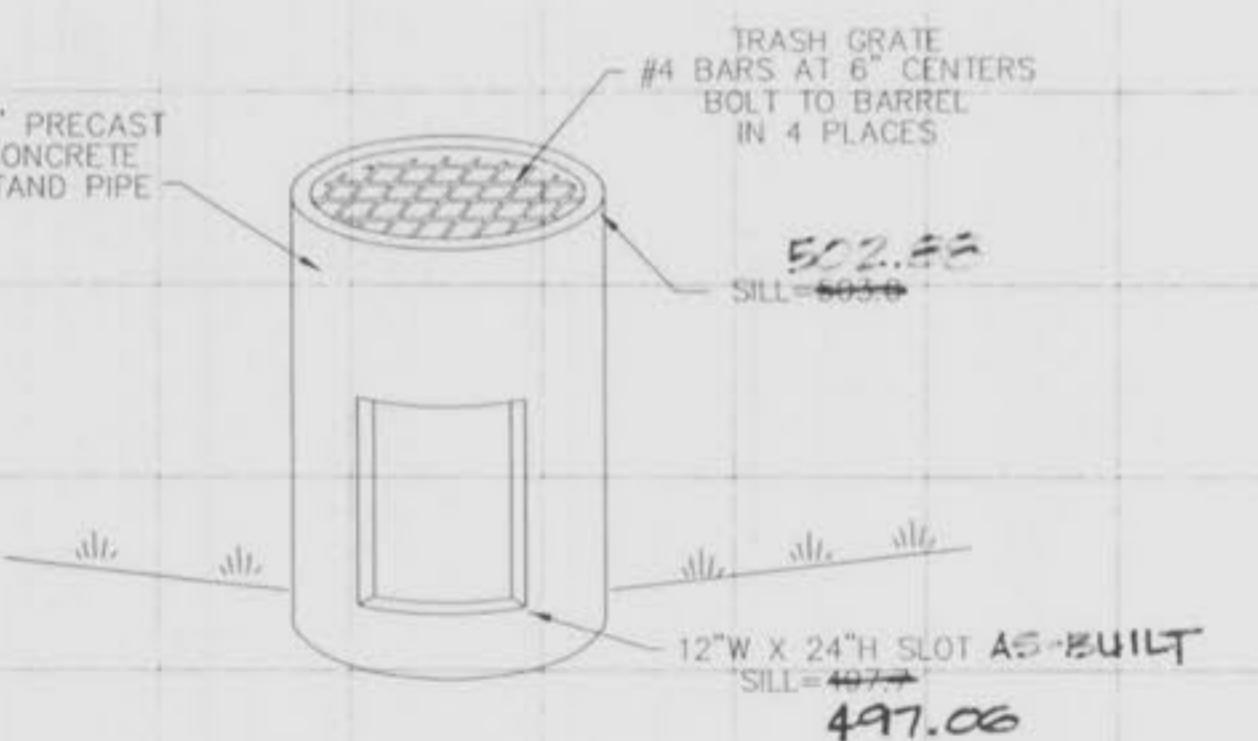
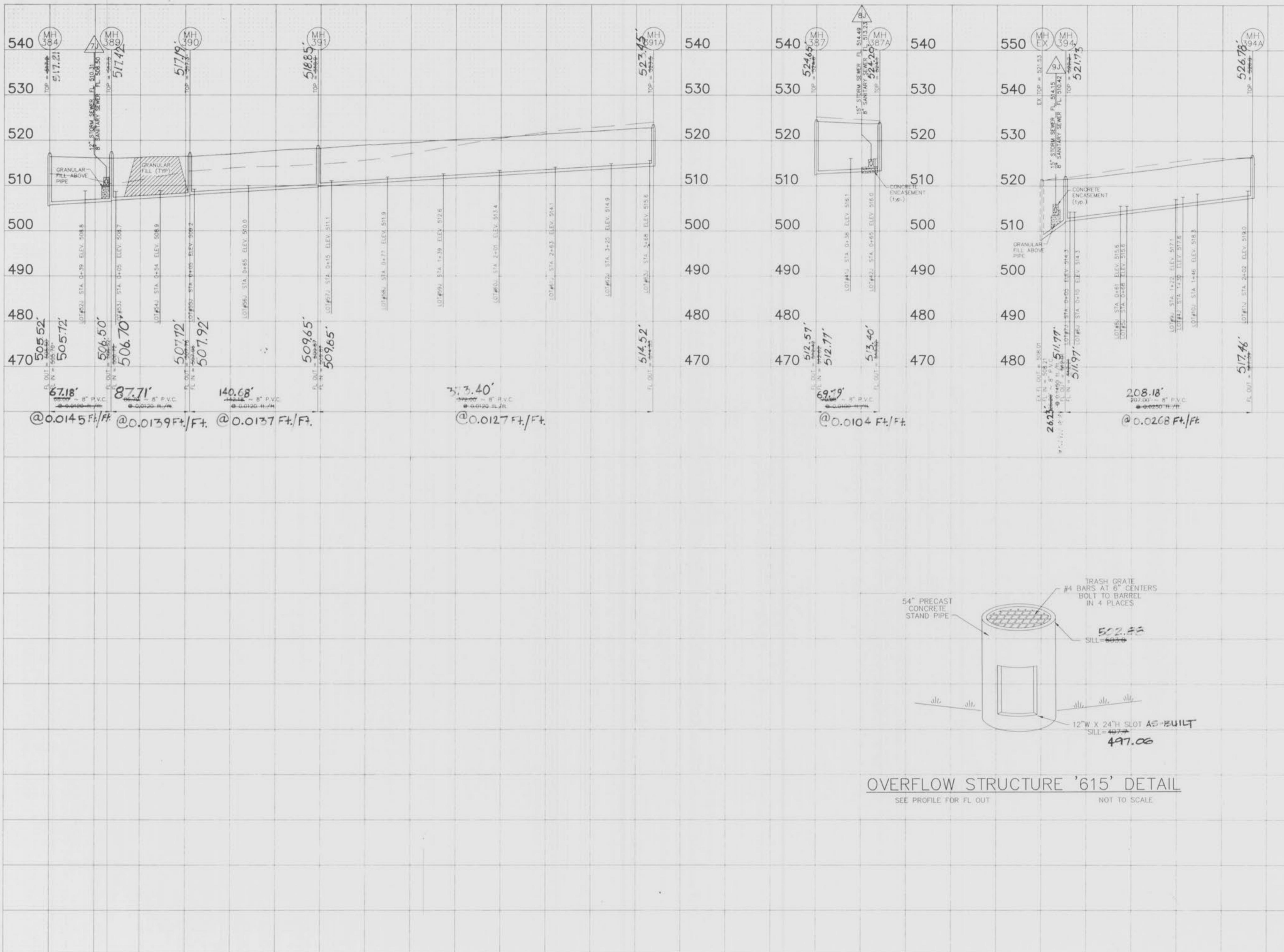
SCALE:  
1" = 10' VERTICAL  
1" = 50' HORIZONTAL

REVISED DECEMBER 2001  
PER CITY OF O'FALLON, MO.

AS-BUILT'S ADDED JUNE 2000  
REvised July, 2000  
Homefield@kansatele.com



-10001J SEPTEMBER 10, 1999



# OVERFLOW STRUCTURE '615' DETAIL

SEE PROFILE FOR EL OUT

NOT TO SCALE

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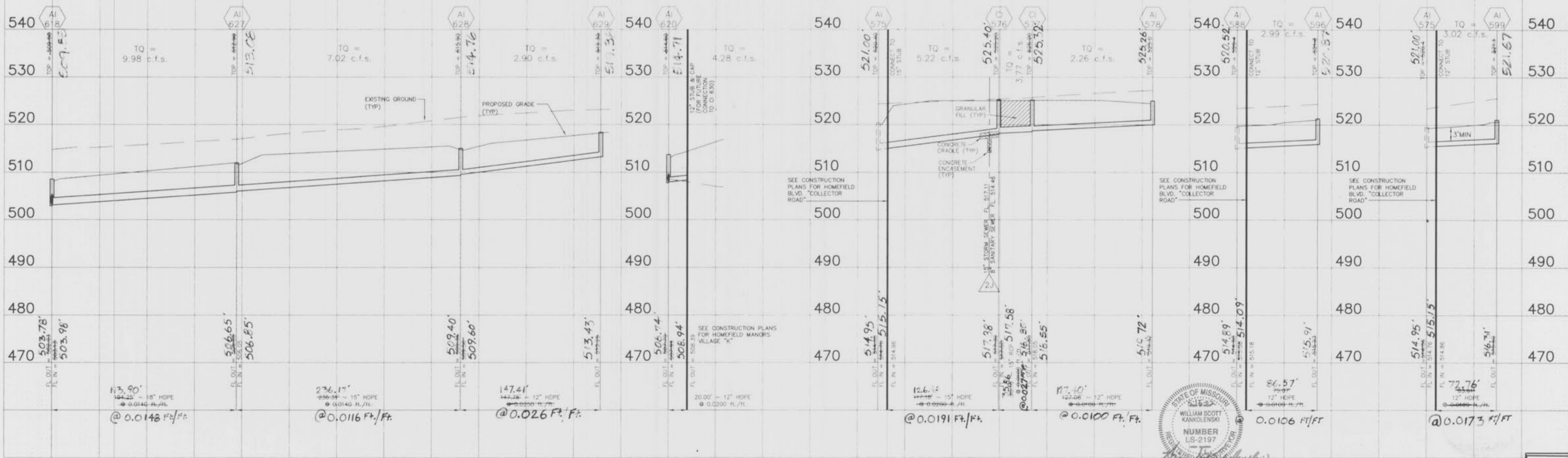
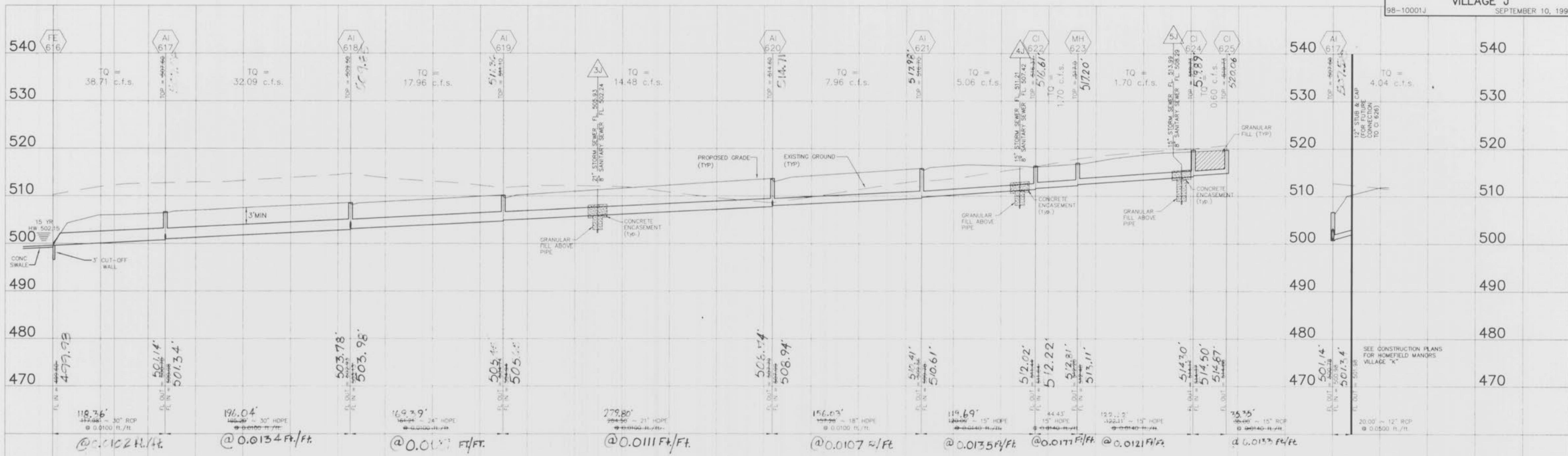
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STATE OF MISSOURI  
5-15-0X  
WILLIAM SCOTT  
KANKOLENSKI  
NUMBER  
LS-2197  
REGISTERED LAND SURVEYOR  
William Scott Kankolenski

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Homefield Manors J  
as built

